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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/311,070	05	5/13/1999	YOSHIHARU HIRAKATA	0756-1971 9732		
22204	7590	12/06/2001				
NIXON PEABODY, LLP				EXAMINER		
8180 GREENSBORO DRIVE SUITE 800 MCLEAN, VA 22102				NGUYEN,	NGUYEN, DUNG T	
				ART UNIT	PAPER NUMBER	
				2871		
				DATE MAILED: 12/06/2001		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/311,070

Applicant(s

Hirakata et al.

Examiner

Dung Nguyen

Art Unit 2871

	The MAILING DATE f this communication appears	on the c ver sheet with the corres	
	for Reply		
A SH THE I	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE 3 MONTH	(S) FROM
- Exter	nsions of time may be available under the provisions of 37 (ter SIX (6) MONTHS from the mailing date of this communi	CFR 1.136 (a). In no event, however, r	may a reply be timely filed
- If the	period for reply specified above is less than thirty (30) day considered timely.	s, a reply within the statutory minimum	n of thirty (30) days will
- If NC	period for reply is specified above, the maximum statutory	period will apply and will expire SIX (6	6) MONTHS from the mailing date of this
- Failu - Any	ommunication. The to reply within the set or extended period for reply will, be reply received by the Office later than three months after the part of the part o	y statute, cause the application to become mailing date of this communication,	ome ABANDONED (35 U.S.C. § 133). even if timely filed, may reduce any
Status	, , , , , , , , , , , , , , , , , , , ,		
1) 💢	Responsive to communication(s) filed on Nov 3, 2	001	
2a) 🗌	This action is FINAL . 2b) 💢 This ac	ction is non-final.	
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ partial$	except for formal matters, prosec arte Quayle, 1935 C.D. 11; 453 (cution as to the merits is O.G. 213.
Disposi	tion of Claims		
4) 💢	Claim(s) 1-11 and 14-24	is/are	pending in the application.
4	a) Of the above, claim(s)	is/are	e withdrawn from consideration.
5) 🗆	Claim(s)		is/are allowed.
6) 💢	Claim(s) 1-11 and 14-24		is/are rejected.
7) 🗌	Claim(s)		is/are objected to.
8) 🗆	Claims	are subject to restric	tion and/or election requirement.
Applica	tion Papers		
9) 🗆	The specification is objected to by the Examiner.		
10)	The drawing(s) filed on is/are	e objected to by the Examiner.	
11) 🗌	The proposed drawing correction filed on	is: a) \square approved	b) \square disapproved.
12)	The oath or declaration is objected to by the Exam	niner.	
Priority	under 35 U.S.C. § 119		
13)□	Acknowledgement is made of a claim for foreign p	priority under 35 U.S.C. § 119(a)-	(d).
	All b)□ Some* c)□ None of:		
	1. ☐ Certified copies of the priority documents have		
	2. ☐ Certified copies of the priority documents have		
	3. U Copies of the certified copies of the priority d application from the International Bure se the attached detailed Office action for a list of th	eau (PCT Rule 17,2(a)).	this National Stage
	Acknowledgement is made of a claim for domestic		e).
Attachme			
5) 💢 No	tice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper N	lo(s)·
	tice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (
7) [_] Inf	ormetion Disclosure Statement(s) (PTO-1449) Paper No(s)	20) Other:	

Art Unit: 2871

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/03/2001 has been entered.

Drawings

- Figures 20-21 should be designated by a legend such as -- Prior Art-- because only that 1. which is old is illustrated. See MPEP § 608.02(g).
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the step of forming a reflection layer on a common electrode (claim 10) must be shown or the feature(s) cancelled from the claim(s). No new matter should be entered.

Specification

- The lengthy specification has not been checked to the extent necessary to determine the 3. presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- The specification is objected to as failing to provide proper antecedent basis for the 4. claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). According to claim 10, a

Application/Control Number: 09/311,070 Page 3

Art Unit: 2871

reflection film is formed on a common electrode; however, such limitation is not supported in the specification. Correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 10-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claim 10, there is no teaching in the specification and drawings how a reflection film can be formed on a common electrode. According to the specification and figures 5-6A&6B, a transparent pixel electrode is formed on a common electrode. Therefore, claim 10 contains subject matter which was not described in the specification.

Claim Rejections - 35 USC § 102

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Art Unit: 2871

8. Claims 17-19, 21 and 23 stand rejected under 35 U.S.C. 102(b) as being anticipated by Masaya et al., JP 07-230101, as stated in the final office action.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., a dielectric multi-layer film comprising a metal material) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. *In re Van Guens*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

9. Claims 17-19, 21 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakajima et al., US Patent No. 6,108,056.

The above claims are anticipated by Nakajima et al. figure 8 which disclose an active-matrix LCD having a reflective layer (116), a pixel electrode (118) and a dielectric film (117) therebetween.

Claim Rejections - 35 USC § 103

- 10. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 11. Claims 1-9 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Masaya et al., JP 07-230101, in view of Iwaki et al., US Patent No. 5,168,383, as stated in the final office action.

Application/Control Number: 09/311,070

Art Unit: 2871

Applicants contends that Masaya et al. and Iwaki et al. do not teach, disclose, or suggest the thickness of the pixel electrode that is satisfied with $\lambda/4$. The Examiner respectfully disagrees with the applicant's viewpoint since, as stated in the final office action, the Iwaki et al. electrode thickness range (i.e, 200 to 2000Å) would be at least obvious to the claimed range (i.e, 50.5nm to 88.4nm). In other words, the thickness of the Iwaki et al. electrode having the range including the claimed range which is satisfied with $\lambda/4$.

Accordingly, the rejection of claims 1-9 stand.

12. Claim 14-16, 21, 22 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakajima et al., US Patent No. 6,108,056, in view of Sato et al., US Patent No. 5,461,501.

Regarding claims 24, Nakajima et al. disclose the claimed invention as described above except for the use of aluminum (Al) based materials for the reflection layer as well as a reflection area of the reflection layer is greater than an electrode area of the pixel electrode. Sato et al. disclose an aluminum shading layer (111) can be formed under a pixel electrode (figure 9) and a reflection area of the reflection layer is greater than an electrode area of the pixel electrode (figure 10). Therefore, it would have been obvious to one skill in the art to form the Nakajima et al. reflection film by aluminum and having an area greater than an electrode area of the pixel electrode as shown by Sato et al. in order to reduce a photo-current in an LCD display (col. 10, ln. 59).

Application/Control Number: 09/311,070

Art Unit: 2871

Response to Arguments

13. Applicant's arguments filed 10/15/2001 have been fully considered but they are not

persuasive as stated above.

14. Applicant's arguments with respect to claims 14-16, 21-22 and 24 have been considered

but are moot in view of the new ground(s) of rejection.

Conclusion

15. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Dung Nguyen whose telephone number is (703) 305-0423.

DN 11/30/2001

William L. Sikes

Supervisory Patent Examiner

Page 6

Group 2871